CHEMET Forecast

Pirbright Wildfire CHEMET 745_002

Issued by Met Office Environment Monitoring and Response Centre (EMARC)

Tel: 01392 447947 Email: emarc@metoffice.gov.uk Link to Hazard Manager

Plume forecast below 100m - map will be sent separately

Forecast Issued on Tuesday, 05 July 2022 at 12:53 local

To: Duty Officer	**Organisation:** Surrey FRS
Tel: 01737499050	**Email:** sfrsmobilising.control@surreycc.gov.uk

Forecast for: Pirbright **Nature of Incident:** Wildfire

Incident ongoing since: 05/07/2022 13:00

Forecast valid between: 13:00 05/07/2022 *and* 01:00 06/07/2022

Surface wind direction/speed: *Blowing from NW towards SE at 8 mph.*

Weather conditions and effect on plume: Dispersion will continue to be moderate towards the south east this afternoon and evening. The plume is likely to disperse well vertically this afternoon, but will become confined closer to the surface later this evening.

If incident continues beyond the validity period, the following weather conditions will affect the plume

Plume likely to become grounded overnight at times, lifting mid-morning tomorrow and with direction changing to disperse towards the south around the same time.

Please call 01392 447947 to request further updates if this incident is likely to continue or to discuss further.

Additional Information for Science and Health Agencies

Precipitation (type and intensity): Dry

Total Cloud amount: 6 oktas

Height of lowest significant cloud: 4000 feet

Air temperature: 19 °C

Relative humidity: 55 %

Depth of mixing layer: 1000 metres

Wind at top of mixing layer: Blowing from 310 to 130 degrees at 20 km/h

Air stability: D *(A=unstable, G=stable)*

Latitude and Longitude of source: 51.3104 N, 0.654 W

Sensible heat flux: 57 W/m^2

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